Target group schedule for A1n/d2n target coil rotation

3/13/2020-3/20/2020

* Preparation before Friday 3/13:
	+ Prepare new cell
		- Austin density measurement (Todd)
		- Cell mounting preparation (including RTDs, pNMR coil) (Arun)
	+ Parts (cable, optics,…) preparation (Junhao)
	+ Make lists of cables to be disconnected, make lables (Junhao/Murchhaha)
* Friday
	+ 8:00 – 10:00 Radcon survey.

Before entering the hall we should perform the following tests from the counting house (Mingyu/Murchhana)

* + - AFP Loss in Transverse
		- Cross calibration of L/T
		- Temperature Tests
		- \*Cross calibration position dependence? (Bill will check if this is needed)
		- \*pNMR tests? (Mingyu)
	+ 10:00
		- Put Hall in Laser controlled access (JP)
		- Remove panels, 2 or all? Tech? RADCON (RADCON swipes and test)
		- replace photodiode (Junhao) RADCON
		- EPR/NMR calibration, both L and T (Junhao/Todd)
		- Check photodiode/mount effect on NMR (Junhao)
		- Take out of laser controlled access (JP)
	+ 13:00
		- Open enclosure completely, if not already (techs/RADCON)
		- Disconnect gas lines for reference cell and cooling jets for target windows, leave cooling jets on for the beam line windows. Includes connections at the pivot and gas panel. (Todd)
		- Disconnect all cabling which affects coil rotation (Junhao/Mingyu)
			* Label all cables at both ends
	+ 19:00
		- Remove RTDs (Bill/ Arun)
		- Remove Target Ladder (Bill/ Arun)
		- Remove Target Cell (Bill/ Arun)
* Weekend
	+ Mostly Tech work but one expert should be present

Starting at 8 am Saturday

* + - Dismount beam line windows, put in nitrogen bag
		- Disconnect remaining gas lines
		- Match mark locations of vertical correction coils
		- Lower correction coils and RF coils
		- Check everything is clear to rotate
		- Rotate main coils 45 degs. CCW looking down
		- Install correction and RF coils (using match marks)
		- Remote ladder to top platform and move optics table on platform
	+ Target group (Sunday)
		- Install new Kepco (Bill)
		- Connect Main coils and corrections coils (Bill/Junhao)
		- Testing power supplies (including new Kepco) and setting fields (Bill/Junhao)
		- Field measurement/checking (Bill?)
* Monday
	+ Alignment group, Target group (Murchhana)
		- Survey coil locations
		- Adjust as necessary
		- Survey alignment laser mounts
		- Set up Compass (Murchhana)
		- Survey Compass
		- Remote ladder to top platform and move optics table on platform (if not already done)
		- Set up and perform Compass measurement, (Murchhana and target group swing/owl)
* Tuesday
	+ Compass measurements (Target group/Alignment group)
		- Continue compass measurements if not completed (Murchanna)
		- Survey compass results (if measurements complete early enough)
* Wednesday
	+ Morning (Alignment group, Techs)
		- Survey compass results (if not done on Tuesday)
		- Remove optics table, Install large ladder
	+ Afternoon-swing (target group)
		- Install
			* Gas lines (Todd/Techs)
			* Cabling (Junhao/Mingyu)
			* Target cell (Arun/Bill)
			* Target ladder and (Arun/Bill)
			* Reference cell (Todd)
			* RTDs (Bill)
			* Heating up oven, alignment check (Arun)
		- Check out instrumentation (Junhao/Mingyu)
* Thursday
	+ Laser alignment (JP/Junhao/Murchhana)
		- Put hall in laser controlled access
		- Laser alignment
		- Laser polarization check/adjustment
		- Set up for pumping in reverse directions (0 and 270)
	+ Spin up
	+ EPR calibrations in L and T (Melanie/Junhao)
	+ AFP loss study
	+ Check pNMR (Mingyu)
* Friday
	+ - Close up enclosure (Techs)
		- Out of laser controlled access
	+ Ready for beam